PS480D72 Quick Setup Guide

Before you Start

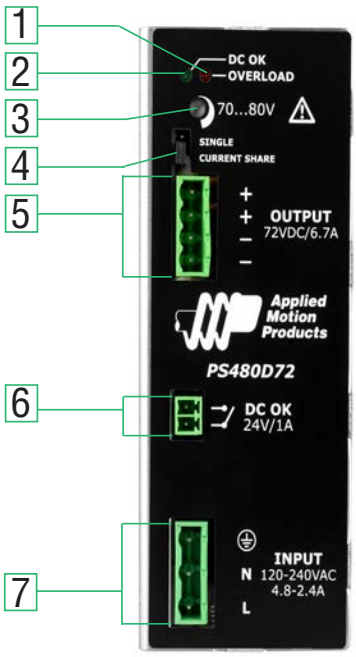
- The product must be installed, operated, serviced and maintained by qualified personnel in compliance with applicable standards and regulations.
- Do not open the device, it does not contain replaceable components. The tripping of the internal fuse (if included) is typically caused by an internal failure.
- Do not repair or modify the device, if a malfunction or failure should occur during operation, send the unit to the factory for inspection.
- Never carry out work on live parts! Danger of fatal injury! The product's enclosure may be hot. Allow time for product to cool down before touching it. Do not allow liquids or foreign objects to enter into the product.
- To avoid sparks, do not connect or disconnect the device before having previously turned-off input power and waiting for internal capacitors to discharge (minimum 1 minute).

Requirements

- PS480D72 Power Supply
- A flat blade screw driver
- A 24V/1A (max) power supply if "DC OK" remote signal is used.

Overview

Connection



1. Green LED (output DC OK)
2. Red LED (Overload)
3. Output Voltage Adjustment (70-80VDC)
4. Current Mode selection: SINGLE or CURRENT SHARE
5. DC output connection (70VDC)
6. DC OK output connection(24VDC)
7. AC Input connection

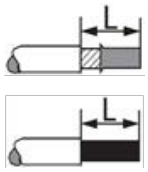
Input AC (DC) Line

L = Line
N = Neutral
⏚ = Earth Ground

Output

\+ = Postive DC
– = Negative DC

To parallel connect more than one PS480D72 power supply, each device must be set for current share mode.



Solid: 2.5mm² / 12AWG
Stranded:1.5mm² / 12AWG
L: 6.0-7.5mm / 0.24-0.30 in
Recommended tightening torque, 0.5-0.6Nm (4.42-5.30lbf. in)

Operating Conditions

- - 40°C...70°C
- 5...95% r.H. non condensing
- UL Certified up to 50°C ambient at 120Vac
- UL Certified up to 60°C ambient at 240Vac

Derating

- -7.6W/°C over 50°C at 120Vac
- -7.2W/°C over 60°C at 240Vac

Protection

The device is protected against overload (OL), short circuit (SC), over-voltage (OV) and over-temperature (OT).

OL behavior in SINGLE mode: Hiccup Pattern
Max. OL= 1.5 x I nominal. The output voltage remains constant at nominal voltage for 5s and after that time the device starts an ON/OFF cycle.
OL behavior in CURRENT SHARE mode:
Maximum output current is limited to 1.1 x I nominal current. If the load resistance is further decreased the output voltage starts to drop.

SC behavior in SINGLE mode:
The device supplies 1.5 x I nominal current for 5 sec. After that time, it switches off for 10 sec. The ON/OFF cycle is repeated continuously.

SC behavior in CURRENT SHARE mode:
The device supplies 1.1 x Output current continuously into the short circuit without switching off.

Output OV circuit protection:
The output is protected against potential OV due to internal malfunction or coming from the load for V nominal X 1.3.

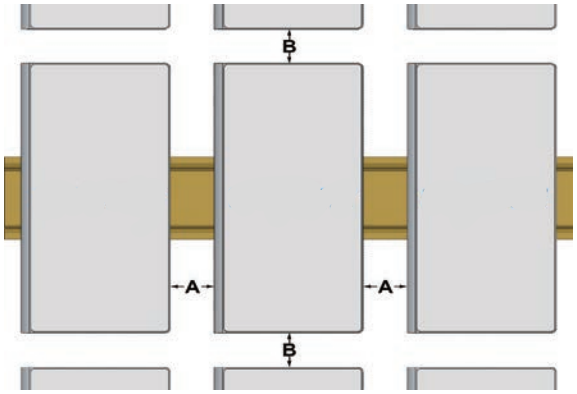
OT protection:
Turns off the device if the internal temperature exceeds a safe limit. It will shut down at 100°C ±5°C, and auto-recover at 60°C ±10°C. To resume normal operation: reduce ambient air temperature, increase cooling, or reduce load.

Installation

In order to guarantee sufficient convection, minimum gap distance is required:

A = 20mm (0.8 inch)
B = 100mm (3.9 inch)

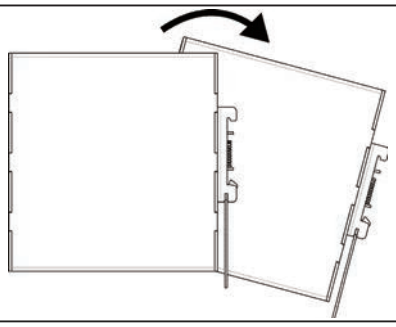
This device is provided with thermal protection. Limited airflow can cause the thermal protection to trip.



For DIN rail fastening according to IEC 60715 TH35-7.5(-15)

Mounting:

1. Tilt the unit slightly backwards.
2. Fit the unit over the top edge of the rail.
3. Slide it downward until it hits the stop.
4. Press against the bottom to lock.



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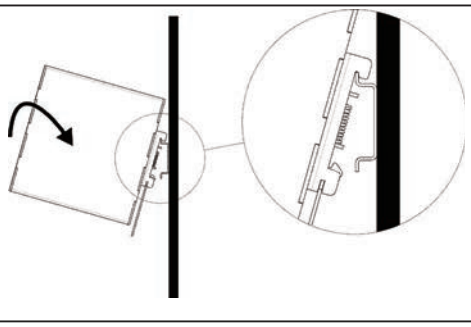

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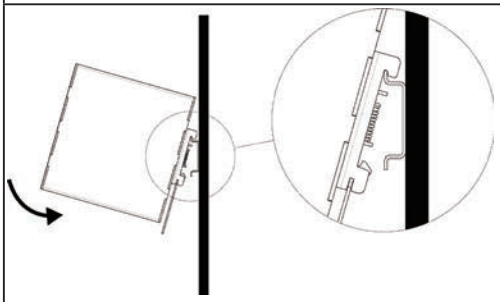

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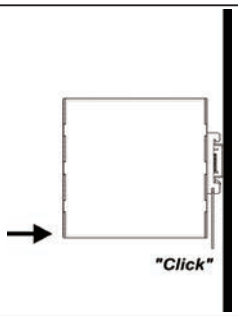

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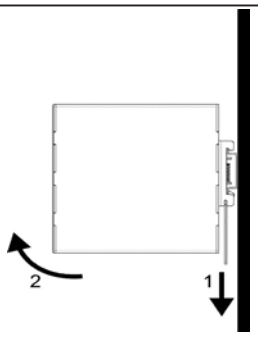
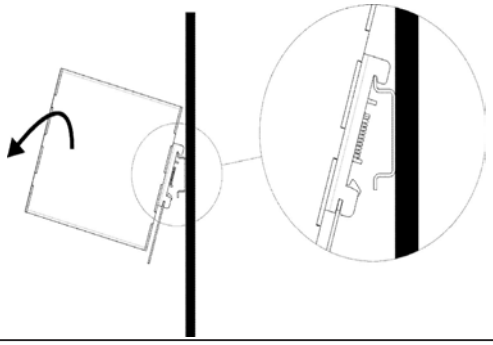
Dismounting:

1. Pull down the slide clamp lever.
2. Tilt the unit toward.
3. Unhook the unit from the rail.



1 & 2



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